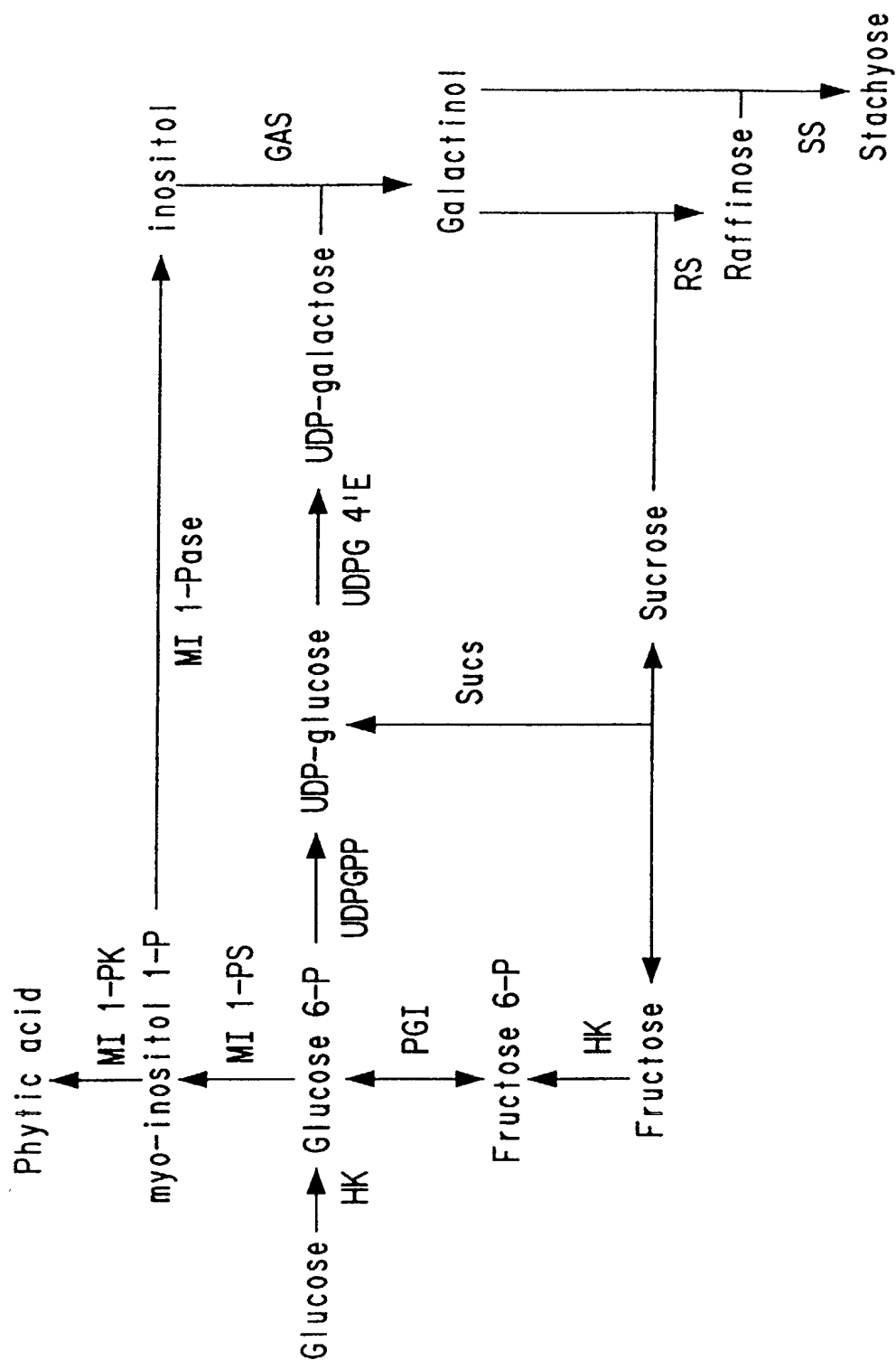
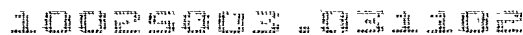




FIG.1





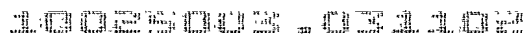
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 ATGTTTCATCGAGAAATTTTAAGGTTAGAGTGTCCTAATGTGAAGTACACCCGAGACTGAGATT
 SEQ ID NO:5
 ATGTTTCATCGAGAAATTTTAAGGTTAGAGTGTCCTAATGTGAAGTACACCCGAGACTGAGATT
 SEQ ID NO:9
 ATGTTTCATCGAGAAATTTTAAGGTTAGAGTAGAGTGCTTAATGTGAAGTACACCCGAGACTGAGATT
 SEQ ID NO:11
 ATGTTTCATCGAGAAATTTTAAGGTTAGAGTAGAGTGCTTAATGTGAAGTACACCCGAGACTGAGATT
 SEQ ID NO:13
 ATGTTTCATCGAGAAATTTTAAGGTTAGAGTAGAGTGCTTAATGTGAAGTACACCCGAGACTGAGATT
 SEQ ID NO:15

61 CAGTCCGTGTACAACTACGAAACCCACCGAACTTGTTACGAGAAACAGGAATGGCACCTAT
 SEQ ID NO:1
 CAGTCCGTGTACAACTACGAAACCCACCGAACTTGTTACGAGAAACAGGAATGGCACCTAT
 SEQ ID NO:5
 CAGTCCGTGTACAACTACGAAACCCACCGAACTTGTTACGAGAAACAGGAATGGCACCTAT
 SEQ ID NO:9
 CAGTCCGTGTACAACTACGAAACCCACCGAACTTGTTACGAGAAACAGGAATGGCACCTAT
 SEQ ID NO:11
 CAGTCCGTGTACAACTACGAAACCCACCGAACTTGTTACGAGAAACAGGAATGGCACCTAT
 SEQ ID NO:13
 CAGTCCGTGTACAACTACGAAACCCACCGAACTTGTTACGAGAAACAGGAATGGCACCTAT
 SEQ ID NO:15

121 CAGTGGATTGTCAAACCCCAAATCTCTCAAATACGAATTTAAACCAACATCCATGTTCCCT
 SEQ ID NO:1
 CAGTGGATTGTCAAACCCCAAATCTCTCAAATACGAATTTAAACCAACATCCATGTTCCCT
 SEQ ID NO:5
 CAGTGGATTGTCAAACCCCAAATCTCTCAAATACGAATTTAAACCAACATCCATGTTCCCT
 SEQ ID NO:9
 CAGTGGATTGTCAAACCCCAAATCCCTCAAATTAACCAACCAACCCATGTTCCCA
 SEQ ID NO:11
 CAGTGGATTGTCAAACCCCAAATCCCTCAAATTAACCAACCAACCCATGTTCCCA
 SEQ ID NO:13
 CAGTGGATTGTCAAACCCCAAATCCCTCAAATTAACCAACCAACCCATGTTCCCA
 SEQ ID NO:15

181 AAATTAGGGGTAAATGCTTGTGGTTGGGTGGAAACAACGGCTCAACCCCTACCCGGTGGT
 SEQ ID NO:1
 AAATTAGGGGTAAATGCTTGTGGTTGGGTGGAAACAACGGCTCAACCCCTACCCGGTGGT
 SEQ ID NO:5
 AAATTAGGGGTAAATGCTTGTGGTTGGGTGGAAACAACGGCTCAACCCCTACCCGGTGGT
 SEQ ID NO:9
 AAATTGGGGTGAATGCTTGTGGTTGGGTGGAAACAACGGCTCAACCCCTACCCGGTGGT
 SEQ ID NO:11
 AAATTGGGGTGAATGCTTGTGGTTGGGTGGAAACAACGGCTCAACCCCTACCCGGTGGT
 SEQ ID NO:13
 AAATTGGGGTGAATGCTTGTGGTTGGGTGGAAACAACGGCTCAACCCCTACCCGGTGGT
 SEQ ID NO:15

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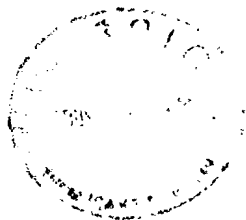


Figure 2 (cont.)

721	SEQ ID NO: 1	GTGGCCCTTAATGACACACCATGGAGAAATCTCTTGGCTGCTGTGGACAGAAATGAGGCTGAG
	SEQ ID NO: 5	GTGGCCCTTAATGACACACCATGGAGAAATCTCTTGGCTGCTGTGGACAGAAATGAGGCTGAG
	SEQ ID NO: 9	GTGGCCCTTAATGACACACCATGGAGAAATCTCTTGGCTGCTGTGGACAGAAATGAGGCTGAG
	SEQ ID NO: 11	GTAGGCCCTTAATGACACACCATGGAGAAATCTCTTGGCTGCTGTGGACAGAAATGAGGCTGAG
	SEQ ID NO: 13	GTAGGCCCTTAATGACACACCATGGAGAAATCTCTTGGCTGCTGTGGACAGAAATGAGGCTGAG
	SEQ ID NO: 15	GTAGGCCCTTAATGACACACCATGGAGAAATCTCTTGGCTGCTGTGGACAGAAATGAGGCTGAG
781	SEQ ID NO: 1	ATTCTCCTTCACACCTTGATGCCATTGCTTGTGTATGGAAAAATGTTCCCTTTTCATTAAAT
	SEQ ID NO: 5	ATTCTCCTTCACACCTTGATGCCATTGCTTGTGTATGGAAAAATGTTCCCTTTTCATTAAAT
	SEQ ID NO: 9	ATTCTCCTTCACACCTTGATGCCATTGCTTGTGTATGGAAAAATGTTCCCTTTTCATTAAAT
	SEQ ID NO: 11	ATTCTCCTTCACACCTTGATGCCATTGCTTGTGTATGGAAAAATGTTCCCTTTTCATTAAAT
	SEQ ID NO: 13	ATTCTCCTTCACACCTTGATGCCATTGCTTGTGTATGGAAAAATGTTCCCTTTTCATTAAAT
	SEQ ID NO: 15	ATTCTCCTTCACACCTTGATGCCATTGCTTGTGTATGGAAAAATGTTCCCTTTTCATTAAAT
841	SEQ ID NO: 1	GGAGGCCCTCAGAACACATTTTGTACCAGGGCTGATTGATCTTGCCATCGCGAGGGAACACT
	SEQ ID NO: 5	GGAGGCCCTCAGAACACATTTTGTACCAGGGCTGATTGATCTTGCCATCGCGAGGGAACACT
	SEQ ID NO: 9	GGAGGCCCTCAGAACACATTTTGTACCAGGGCTGATTGATCTTGCCATCGCGAGGGAACACT
	SEQ ID NO: 11	GGAGGCCCTCAGAACACATTTTGTACCAGGGCTGATTGATCTTGCCATCGCGAGGGAACACT
	SEQ ID NO: 13	GGAGGCCCTCAGAACACATTTTGTACCAGGGCTGATTGATCTTGCCATCGCGAGGGAACACT
	SEQ ID NO: 15	GGAGGCCCTCAGAACACATTTTGTACCAGGGCTGATTGATCTTGCCATCGCGAGGGAACACT
901	SEQ ID NO: 1	TTGATTGGTGGAGATGACTTCAAGAGTGGTCAGACCAAAAATGAAATCTGTGTTGGTTGAT
	SEQ ID NO: 5	TTGATTGGTGGAGATGACTTCAAGAGTGGTCAGACCAAAAATGAAATCTGTGTTGGTTGAT
	SEQ ID NO: 9	TTGATTGGTGGAGATGACTTCAAGAGTGGTCAGACCAAAAATGAAATCTGTGTTGGTTGAT
	SEQ ID NO: 11	TTGATTGGTGGAGATGACTTCAAGAGTGGTCAGACCAAAAATGAAATCTGTGTTGGTTGAT
	SEQ ID NO: 13	TTGATTGGTGGAGATGACTTCAAGAGTGGTCAGACCAAAAATGAAATCTGTGTTGGTTGAT
	SEQ ID NO: 15	TTGATTGGTGGAGATGACTTCAAGAGTGGTCAGACCAAAAATGAAATCTGTGTTGGTTGAT
961	SEQ ID NO: 1	TTGATTGGTGGGCTGGTATCAAGCCAAACATCTATAGTCAGTTACAACCATCTGGGAAAC
	SEQ ID NO: 5	TTCTTTGTGGGGCTGGTATCAAGCCAAACATCTATAGTCAGTTACAACCATCTGGGAAAC
	SEQ ID NO: 9	TTCTTTGTGGGGCTGGTATCAAGCCAAACATCTATAGTCAGTTACAACCATCTGGGAAAC
	SEQ ID NO: 11	TTTCTTTGTGGGGCTGGTATCAAGCCAAACATCTATAGTCAGTTACAACCATCTGGGAAAC
	SEQ ID NO: 13	TTTCTTTGTGGGGCTGGTATCAAGCCAAACATCTATAGTCAGTTACAACCATCTGGGAAAC
	SEQ ID NO: 15	TTTCTTTGTGGGGCTGGTATCAAGCCAAACATCTATAGTCAGTTACAACCATCTGGGAAAC
1021	SEQ ID NO: 1	TTCTTTGTGGGGCTGGTATCAAGCCAAACATCTATAGTCAGTTACAACCATCTGGGAAAC
	SEQ ID NO: 5	TTCTTTGTGGGGCTGGTATCAAGCCAAACATCTATAGTCAGTTACAACCATCTGGGAAAC
	SEQ ID NO: 9	TTCTTTGTGGGGCTGGTATCAAGCCAAACATCTATAGTCAGTTACAACCATCTGGGAAAC
	SEQ ID NO: 11	TTTCTTTGTGGGGCTGGTATCAAGCCAAACATCTATAGTCAGTTACAACCATCTGGGAAAC
	SEQ ID NO: 13	TTTCTTTGTGGGGCTGGTATCAAGCCAAACATCTATAGTCAGTTACAACCATCTGGGAAAC
	SEQ ID NO: 15	TTTCTTTGTGGGGCTGGTATCAAGCCAAACATCTATAGTCAGTTACAACCATCTGGGAAAC

$\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & i \\ 0 & 1 \end{pmatrix}$ $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & -i \\ 0 & 1 \end{pmatrix}$ $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 0 \\ i & 1 \end{pmatrix}$ $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 0 \\ -i & 1 \end{pmatrix}$ $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & i \\ i & 1 \end{pmatrix}$ $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & -i \\ -i & 1 \end{pmatrix}$ $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 0 \\ 0 & i \end{pmatrix}$ $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 0 \\ 0 & -i \end{pmatrix}$

1021	SEQ ID NO:1	AATGATGGTATGAATCTTTCCGCTCCACAAACTTTCCGTTCCAAGGAAATCTCCAAGAGC	1080
	SEQ ID NO:5	AATGATGGTATGAATCTTTCCGCTCCACAAACTTTCCGTTCCAAGGAAATCTCCAAGAGC	
	SEQ ID NO:9	AATGATGGTATGAATCTTTCCGCTCCACAAACTTTCCGTTCCAAGGAAATCTCCAAGAGC	
	SEQ ID NO:11	AATGATGGTATGAATCTCTCGGCTCCACAAACCTTCCGCTCCAAGGAAATCTCCAAGAGC	
	SEQ ID NO:13	AATGATGGTATGAATCTCTCGGCTCCACAAACCTTCCGCTCCAAGGAAATCTCCAAGAGC	
	SEQ ID NO:15	AATGATGGTATGAATCTCTCGGCTCCACAAACCTTCCGCTCCAAGGAAATCTCCAAGAGC	
1081	SEQ ID NO:1	AACGTTGTTGATGATATGGTCAACAGCAATGCCATCCTCTATGAGCCTGGTGAACATCCA	1140
	SEQ ID NO:5	AACGTTGTTGATGATATGGTCAACAGCAATGCCATCCTCTATGAGCCTGGTGAACATCCA	
	SEQ ID NO:9	AACGTTGTTGATGATATGGTCAACAGCAATGCCATCCTCTATGAGCCTGGTGAACATCCA	
	SEQ ID NO:11	AACGTTGTTGACGATATGGTCAACAGCAATGCCATCCTCTATGAGCCTGGTGAACATCCC	
	SEQ ID NO:13	AACGTTGTTGACGATATGGTCAACAGCAATGCCATCCTCTATGAGCCTGGTGAACATCCC	
	SEQ ID NO:15	AACGTTGTTGACGATATGGTCAACAGCAATGCCATCCTCTATGAGCCTGGTGAACATCCC	
1141	SEQ ID NO:1	GACCATGTTGTTGTTATTAAAGTATGTGCCTTACGTAGGGGACAGCAAGAGAGCCATGGAT	1200
	SEQ ID NO:5	GACCATGTTGTTGTTATTAAAGTATGTGCCTTACGTAGGGGACAGCAATAGAGCCATGGAT	
	SEQ ID NO:9	GACCATGTTGTTGTTATTAAAGTATGTGCCTTACGTAGGGGACAGCAAGAGAGCCATGGAT	
	SEQ ID NO:11	GACCATGTTGTTGTTATTAAAGTATGTGCCTTACGTAGGGGATAGCAAGAGAGCCATGGAT	
	SEQ ID NO:13	GACCATGTTGTTGTTATTAAAGTATGTGCCTTACGTAGGGGATAGCAAGAGAGCCATGGAT	
	SEQ ID NO:15	GACCATGTTGTTGTTATTAAAGTATGTGCCTTACGTAGGGGATAGCAAGAGAGCCATGGAT	
1201	SEQ ID NO:1	GAGTACACTTCAGAGATATTTCATGGGTGGAAGAAGCACCATTGTTTTTGCAACAACACATGC	1260
	SEQ ID NO:5	GAGTACACTTCAGAGATATTTCATGGGTGGAAGAAGCACCATTGTTTTTGCAACAACACATGC	
	SEQ ID NO:9	GAGTACACTTCAGAGATATTTCATGGGTGGAAGAAGCACCATTGTTTTTGCAACAACACATGC	
	SEQ ID NO:11	GAGTACACTTCAGAGATATTTCATGGGTGGAAGAAGCACCATTGTTTTTGCAACAACACATGT	
	SEQ ID NO:13	GAGTACACTTCAGAGATATTTCATGGGTGGAAGAAGCACCATTGTTTTTGCAACAACACATGT	
	SEQ ID NO:15	GAGTACACTTCAGAGATATTTCATGGGTGGAAGAAGCACCATTGTTTTTGCAACAACACATGT	

1320

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SEQ	ID NO:2
SEQ	ID NO:6
SEQ	ID NO:10
SEQ	ID NO:12
SEQ	ID NO:14
SEQ	ID NO:16

SEQ	ID NO:2
SEQ	ID NO:6
SEQ	ID NO:10
SEQ	ID NO:12
SEQ	ID NO:14
SEQ	ID NO:16

SEQ	ID NO:2
SEQ	ID NO:6
SEQ	ID NO:10
SEQ	ID NO:12
SEQ	ID NO:14
SEQ	ID NO:16

SSEQ	ID NO:2
SSEQ	ID NO:6
SSEQ	ID NO:10
SSEQ	ID NO:12
SSEQ	ID NO:14
SSEQ	ID NO:16

Figure 3 (cont.)

241
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SEQ ID NO:6 VGLNDTMENLLAAVDRNEAEISPSTLYAIACVMENVPFINGSPQNTFVPGILDIAIARNT
SEQ ID NO:10 VGLNDTMENLLAAVDRNEAEISPSTLYAIACVMENVPFINGSPQNTFVPGILDIAIARNT
SEQ ID NO:12 VGLNDTMENLLAAVDRNEAEISPSTLYAIACVMENVPFINGSPQNTFVPGILDIAIARNT
SEQ ID NO:14 VGLNDTMENLLAAVDRNEAEISPSTLYAIACVMENVPFINGSPQNTFVPGILDIAIARNT
SEQ ID NO:16 VGLNDTMENLLAAVDRNEAEISPSTLYAIACVMENVPFINGSPQNTFVPGILDIAIARNT

301
SEQ ID NO:2 LIGGDDFKSGQTKMKSVLVDVLVAGIKPTSIIVSYNHLGNNDGMNLSAPQTFRSKEISKS 360
SEQ ID NO:6 LIGGDDFKSGQTKMKSVLVDVLVAGIKPTSIIVSYNHLGNNDGMNLSAPQTFRSKEISKS
SEQ ID NO:10 LIGGDDFKSGQTKMKSVLVDVLVAGIKPTSIIVSYNHLGNNDGMNLSAPQTFRSKEISKS
SEQ ID NO:12 LIGGDDFKSGQTKMKSVLVDVLVAGIKPTSIIVSYNHLGNNDGMNLSAPQTFRSKEISKS
SEQ ID NO:14 LIGGDDFKSGQTKMKSVLVDVLVAGIKPTSIIVSYNHLGNNDGMNLSAPQTFRSKEISKS
SEQ ID NO:16 LIGGDDFKSGQTKMKSVLVDVLVAGIKPTSIIVSYNHLGNNDGMNLSAPQTFRSKEISKS

361
SEQ ID NO:2 NVVDDMVNSNAILYEPGEHPDHVVVIKYVPYVGDSKRAMDEYTSEIFMGKKSTIVLHNTC 420
SEQ ID NO:6 NVVDDMVNSNAILYEPGEHPDHVVVIKYVPYVGDSKRAMDEYTSEIFMGKKSTIVLHNTC
SEQ ID NO:10 NVVDDMVNSNAILYEPGEHPDHVVVIKYVPYVGDSKRAMDEYTSEIFMGKKSTIVLHNTC
SEQ ID NO:12 NVVDDMVNSNAILYEPGEHPDHVVVIKYVPYVGDSKRAMDEYTSEIFMGKKSTIVLHNTC
SEQ ID NO:14 NVVDDMVNSNAILYEPGEHPDHVVVIKYVPYVGDSKRAMDEYTSEIFMGKKSTIVLHNTC
SEQ ID NO:16 NVVDDMVNSNAILYEPGEHPDHVVVIKYVPYVGDSKRAMDEYTSEIFMGKKSTIVLHNTC

421
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SEQ ID NO:10 EDSLLAAPIIILDLVLLAELSTRIEFKAENEGKFHFPVATILSYLTAKAPLVPPGTPVNV
SEQ ID NO:12 EDSLLAAPIIILDLVLLAELSTRIEFKAENEGKFHFPVATILSYLTAKAPLVPPGTPVNV
SEQ ID NO:14 EDSLLAAPIIILDLVLLAELSTRIEFKAENEGKFHFPVATILSYLTAKAPLVPPGTPVNV
SEQ ID NO:16 EDSLLAAPIIILDLVLLAELSTRIEFKAENEGKFHFPVATILSYLTAKAPLVPPGTPVNV

481
SEQ ID NO:2 ALSKQRAMLENIMRACVGLAPENNMILEYK 511
SEQ ID NO:6 ALSKQRAMLENIMRACVGLAPENNMILEYK
SEQ ID NO:10 ALSKQRAMLENIMRACVGLAPENNMILEYK
SEQ ID NO:12 ALSKQRAMLENIMRACVGLAPENNMILEYK
SEQ ID NO:14 ALSKQRAMLENIMRACVGLAPENNMILEYK
SEQ ID NO:16 ALSKQRAMLENIMRACVGLAPENNMILEYK